

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. WASHINGTON, D.C. 20460

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comments regarding burden estimate or any other aspect of this collection of information, includ Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue to this address.			
Certification with Respect to Ci	tation of Data		
Applicant's/Registrant's Name, Address, and Telephone Number Extremis, LLC c/o Wagner Regulatory Associates, Inc. P.O. Box 640, Hockessin, DE	19707	EPA Registration Number/File Symbol 91127-U	
Active Ingredient(s) and/or representative test compound(s) Lambda Cyhalothrin Technical		Date December 20, 2016	
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) Terrestrial Food Crop, Terrestrial Nonfood Crop		Product Name EXT Lambda-Cyhalothrin TGAI	
NOTE: If your product is a 100% repackaging of another purchased EPA-registered submit this form. You must submit the Formulator's Exemption Statement (EPA Form	product labeled for 8570-27).	all the same uses on your label, you do not need to	
I am responding to a Data-Call-In Notice, and have included with this form a lie be used for this purpose).	st of companies ser	nt offers of compensation (the Data Matrix form should	
SECTION I: METHOD OF DATA SUPPO	ORT (Check one me	ethod only)	
I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	✓ under the	the selective method of support (or cite-all option selective method), and have included with this form a list of data requirements (the Data Matrix form must be	
SECTION II: GENERAL O	FFER TO PAY		
[Required if using the cite-all method or when using the cite-all option under the selecti			
SECTION III: CERTII	FICATION		
I certify that this application for registration, this form for reregistration, or this application for registration, the form for reregistration, or the Data-Call-In response. In a indicated in Section I, this application is supported by all data in the Agency's files that substantially similar product, or one or more of the ingredients in this product; and (2) is requirements in effect on the date of approval of this application if the application sough uses.	s Data-Call-In responded in the cite-and the cite-and (1) concern the property of data that	all option or cite-all option under the selective method is perties or effects of this product or an identical or would be required to be submitted under the data	
I certify that for each exclusive use study cited in support of this registration the written permission of the original data submitter to cite that study.	or reregistration, tha	at I am the original data submitter or that I have obtained	
I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.			
I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.			
I certify that the statements I have made on this form and all attachme knowingly false or misleading statement may be punishable by fine or imprisor	ents to it are true, nment or both und	accurate, and complete. I acknowledge that any ler applicable law.	
Signature James M. Wagner_	Date 12/20/2016	Typed or Printed Name and Title James M. Wagner, Agent	



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Date: December 20, 2016 Applicant's/Registrant's Name and Address: Extremis, LLC c/o Wagner Regulatory Associates Inc. P.O. Box 640 EPA Reg No./ File Symbol: 91127-U Product: EXT Lambda-Cyhalothrin TGAI

Hockessin, DE 19707

Ingredient: Lambda Cyhalothrin

Guideline Study Name	MRID Number	Submitter	Status	Note
Product Identity, Materials, Production Process, Impurities	49812501	Extremis, LLC		
Preliminary Analysis	49812502	Extremis, LLC	Own	
	49812503			
	49812504			
Certified limits	49812517	Extremis, LLC		
Enforcement Analytical Method	49812505	Extremis, LLC	Own	
•	49812506			
Color, Odor, Physical State	49812507	Extremis, LLC		
	49812517	Extremis, LLC		
	49812508	Extremis, LLC	Own	
	49812517	Extremis, LLC	Own	
	49812517	Extremis, LLC	Own	
	49812517	Extremis, LLC	Own	
	49812517	Extremis, LLC	Own	
	49812517	Extremis, LLC	Own	
	49812517	Extremis, LLC	Own	
	49812509	Extremis, LLC	Own	
	49812510	Extremis, LLC	Own	
	49812517	Extremis, LLC	Own	
	49812511		Own	
		·	Own	
	Product Identity, Materials, Production Process, Impurities Preliminary Analysis	Product Identity, Materials, Production Process, Impurities Preliminary Analysis 49812502 49812503 49812504 Certified limits 49812517 Enforcement Analytical Method 49812506 Color, Odor, Physical State 49812507 Stability to normal and elevated temperatures 49812517 Chemical Incompatibility 49812517 Exploability 49812517 Storage stability 49812517 Miscibility 49812517 Dielectric breakdown voltage pH 49812517 Dielectric breakdown voltage pH 49812517 Melting Point 49812511 Boiling Point 49812512 Density Dissociation constant in water	Product Identity, Materials, Production Process, Impurities 49812502 49812503 49812504 Certified limits 49812505 Extremis, LLC Enforcement Analytical Method 49812506 Color, Odor, Physical State 49812507 Extremis, LLC Stability to normal and elevated temperatures 49812507 Extremis, LLC Stability to normal and elevated temperatures 49812517 Extremis, LLC Chemical Incompatibility 49812508 Extremis, LLC Explodability 49812517 Extremis, LLC Explodability 49812517 Extremis, LLC Storage stability 49812517 Extremis, LLC Miscibility 49812517 Extremis, LLC Dielectric breakdown voltage 49812517 Extremis, LLC Dielectric breakdown voltage 49812510 Extremis, LLC UV-Visible Absorption 49812517 Extremis, LLC Welting Point 49812511 Extremis, LLC Density 49812513 Extremis, LLC Extremis, LLC Dissociation constant in water	Product Identity, Materials, Production Process, Impurities 49812502 49812503 49812503 49812504 Extremis, LLC Own Certified limits 49812517 Extremis, LLC Own Enforcement Analytical Method 49812505 Extremis, LLC Own Color, Odor, Physical State 49812507 Extremis, LLC Own Stability to normal and elevated temperatures 49812517 Extremis, LLC Own Chemical Incompatibility 49812517 Extremis, LLC Own Flammability 49812517 Extremis, LLC Own Exploability 49812517 Extremis, LLC Own Storage stability 49812517 Extremis, LLC Own Miscibility 49812517 Extremis, LLC Own Miscibility 49812517 Extremis, LLC Own Corrosion characteristics 49812517 Extremis, LLC Own Corrosion characteristics 49812517 Extremis, LLC Own Dielectric breakdown voltage 49812517 Extremis, LLC Own Dielectric breakdown voltage 49812517 Extremis, LLC Own UV-Visible Absorption 49812510 Extremis, LLC Own Viscosity 49812511 Extremis, LLC Own Welting Point 49812511 Extremis, LLC Own Density 49812513 Extremis, LLC Own Dissociation constant in water 49812513 Extremis, LLC Own Dissociation constant in water

Signature	0 111/1/11	Name and Title	Date
Signature	Comet M Wagner-	James M. Wagner, Agent for Extremis, LLC	December 20, 2016

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Ingredient: Lambda Cyhalothrin

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

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Date: December 20, 2016 Applicant's/Registrant's Name and Address: Extremis, LLC c/o Wagner Regulatory Associates Inc. P.O. Box 640 Hockessin, DE 19707 EPA Reg No./ File Symbol: 91127-U Page 2 of 10 Product: EXT Lambda-Cyhalothrin TGAI

Submitter Status Note **MRID Number Guideline Reference Number Guideline Study Name** Extremis, LLC Own 49812514 Octanol Water Partition Coefficient 830.7550 Extremis, LLC Own 49812515 Solubility in Water and Organic Solvents 830.7840 Extremis, LLC Own 49812516 830.7950 Vapor Pressure 40052406 **Syngenta Crop Protection** Old Adsorption/Desorption 835.1230 40052407 44861503 44861504 44861509 **Syngenta Crop Protection** Old 40052407 835.1240 Leaching Gap Footnote 1. Volatility Laboratory 835.1410 Old 00151604 **Syngenta Crop Protection** 835.2130 **Hydrolysis** Old 44861501 **Syngenta Crop Protection Aqueous Photolysis** 835.2240 40052405 **Syngenta Crop Protection** Old Soil Photolysis 835.2410 Old 44861504 **Syngenta Crop Protection** Aerobic Soil Metabolism 835.4100 Old 00151607 **Syngenta Crop Protection** Anaerobic Soil Metabolism 835.4200 44861504 44367402 **Syngenta Crop Protection** Old 835.4300 Aerobic Aquatic Metabolism **Syngenta Crop Protection** Old 44367401 Anaerobic Aquatic Metabolism 835.4400 40052407 **Syngenta Crop Protection** Old Terrestrial Field Dissipation 835.6100 40515901 Old 44367403 **Syngenta Crop Protection Aquatic Field Dissipation** 835.6200

Signature	0 444	Name and Title	Date
Signature	Comet M Wagner	James M. Wagner, Agent for Extremis, LLC	December 20, 2016

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Date: December 20, 2016 EPA Reg No./ File Symbol: 91127-U Page 3 of 10 Applicant's/Registrant's Name and Address: Extremis, LLC c/o Wagner Regulatory Associates Inc. P.O. Box 640 Hockessin, DE 19707 Product: EXT Lambda-Cyhalothrin TGAI

Ingredient: Lambda Cyhalothrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1010	Freshwater Invertebrate Acute Toxicity	43908811	Syngenta Crop Protection	Old	
850.1025	Oyster Acute Toxicity	00152728	Syngenta Crop Protection	Old	
850.1035	Saltwater Crustacean Toxicity - Shrimp	00152729	Syngenta Crop Protection	Old	
850.1075	Freshwater Fish Acute Toxicity - Trout	00152738 43908813	Syngenta Crop Protection	Old	
850.1075	Freshwater Fish Acute Toxicity - Bluegill	43908812	Syngenta Crop Protection	Old	
850.1075	Saltwater Fish Acute Toxicity - Sheepshead minnow	00073989	Syngenta Crop Protection	Old	
850.1300	Freshwater Invertebrate Life Cycle	41217501	Syngenta Crop Protection	Old	
850.1350	Saltwater Invertebrate Life Cycle	I I		Gap	Footnote 1.
850.1400	Freshwater Fish Early Life-Stage			Gap	Footnote 1.
850.1400	Saltwater Fish Early Life-Stage	00073989	Syngenta Crop Protection	Old	
850.1500	Fish Life Cycle	41016101 41519001	Syngenta Crop Protection	Old	
850.1730	Fish Bioconcentration	00152745 00152746	Syngenta Crop Protection	Old	
850.2100	Avian Oral Toxicity - Mallard Duck	00259807	Syngenta Crop Protection	Old	
850.2100	Avian Oral Toxicity - Bobwhite Quail			Gap	Footnote 1.
850.2100	Avian Oral Toxicity - Passerine spp.			Gap	Footnote 3.
850.2200	Avian Dietary Toxicity - Bobwhite Quail	00259807	Syngenta Crop Protection	Old	
850.2200	Avian Dietary Toxicity - Mallard Duck	00151595	Syngenta Crop Protection	Old	
850.2300	Avian Reproduction - Bobwhite Quail	00073989	Syngenta Crop Protection	Old	
850.2300	Avian Reproduction - Mallard Duck	41512101	Syngenta Crop Protection	Old	
850.3020	Honey Bee Acute Contact Toxicity	40052409	Syngenta Crop Protection	Old	

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Date: December 20, 2016 EPA Reg No./ File Symbol: 91127-U Page 4 of 10 Applicant's/Registrant's Name and Address: Extremis, LLC c/o Wagner Regulatory Associates Inc. P.O. Box 640 Hockessin, DE 19707 Product: EXT Lambda-Cyhalothrin TGAI

Ingredient: Lambda Cyhalothrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Non-guideline	Honey Bee Acute Oral Toxicity	40052409 40436302 40436303	Syngenta Crop Protection	Old	
Non-guideline	Honey Bee Chronic Oral Toxicity - Adults			Gap	Footnote 1.
Non-guideline	Honey Bee Chronic Oral Toxicity - Larvae			Gap	Footnote 1.
850.4100	Seedling Emergence and Growth			Gap	Footnote 3.
850.4150	Vegetative Vigor			Gap	Footnote 3.
850.4400	Aquatic Plant Toxicity Lemna spp.			Gap	Footnote 3.
850.4500	Algal Toxicity with Green Algae			Gap	Footnote 3.
850.4500	Algal Toxicity with Freshwater diatom			Gap	Footnote 3.
850.4500	Algal Toxicity with Saltwater diatom			Gap	Footnote 3.
870.1100	Acute Oral Toxicity – rat	48601003	Syngenta Crop Protection	Pay	
870.1200	Acute Dermal Toxicity – rat	48601004	Syngenta Crop Protection	Pay	
870.1300	Acute Inhalation Toxicity - rat	48601005	Syngenta Crop Protection	Pay	
870.2400	Eye Irritation - rabbit	48601006	Syngenta Crop Protection	Pay	
870.2500	Skin Irritation – rabbit	48601007	Syngenta Crop Protection	Pay	
870.2600	Skin Sensitization	48601008	Syngenta Crop Protection	Pay	
870.3100	Oral Subchronic - mouse	00154806 43241901	Syngenta Crop Protection	Old	
870.3100	Oral Subchronic – rat	00153028 00154805	Syngenta Crop Protection	Old	
870.3150	Oral Subchronic - dog	00154795	Syngenta Crop Protection	Old	
870.3200	21/28-Day Dermal – rabbit	44333802	Syngenta Crop Protection	Old	
870.3465	4 week Inhalation Toxicity	41387702	Syngenta Crop Protection	Old	

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DATA MATRIX EPA Reg No./ File Symbol: 91127-U Page 5 of 10 Date: December 20, 2016 Extremis, LLC Product: Applicant's/Registrant's Name and Address: EXT Lambda-Cyhalothrin TGAI c/o Wagner Regulatory Associates Inc. P.O. Box 640 Hockessin, DE 19707

Ingredient: Lambda Cyhalothrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3700a	Developmental Toxicity – rat	00154800	Syngenta Crop Protection	Old	
870.3700b	Developmental Toxicity – rabbit	00154801	Syngenta Crop Protection	Old	
870.3800	Reproduction - rat	00154802	Syngenta Crop Protection	Old	
870.4100b	Chronic Toxicity – dog	40027902	Syngenta Crop Protection	Old	
870.4200a	Carcinogenicity – rat	00154803	Syngenta Crop Protection	Old	-
870.4200b	Carcinogenicity – mouse	00150842	Syngenta Crop Protection	Old	
870.4300	Combined Chronic/Carcinogenicity -rat	00154803	Syngenta Crop Protection	Old	
870.5100	Mutagenicity Bacterial Reverse Mutation	00154796	Syngenta Crop Protection	Old	
870.5300	Mutagenicity—In Vitro Mammalian Cell Gene Mutation	00154797	Syngenta Crop Protection	Old	
870.5375	Mutagenicity—Structural Chromosomal Aberrations	00154798	Syngenta Crop Protection	Old	
870.5395	Mammalian Micronucleus Mouse	00154799	Syngenta Crop Protection	Old	
870.6200a	Acute Neurotoxicity Screening Battery	44861510	Syngenta Crop Protection	Old	
870.6200b	Subchronic Neurotoxicity Screening Battery	45689101	Syngenta Crop Protection	Old	
870.6300	Developmental Neurotoxicity (rat)	46449102	Syngenta Crop Protection	Old	
870.7485	General Metabolism - rat	00151116	Syngenta Crop Protection	Old	
	Section Control of the Control of th	00150852	,		
		00150852			
		00153036			
		00153037			
870.7485	Metabolism and Pharmacokinetics - dog	00150843	Syngenta Crop Protection	Old	
		00150852	2017 1000 2017 1000		
870.7600	Dermal Penetration	44990402	Syngenta Crop Protection	Old	
870.7800	Immunotoxicity			Gap	Footnote 3.

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Date: December 20, 2016 Applicant's/Registrant's Name and Address: Extremis, LLC c/o Wagner Regulatory Associates Inc. P.O. Box 640 Hockessin, DE 19707 EPA Reg No./ File Symbol: 91127-U Product: EXT Lambda-Cyhalothrin TGAI

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2100	Transferable Foliar Residues	44964401 44984402 44990401	Syngenta Crop Protection	Old	
860.1850	Confined Accumulation in Rotational Crops	N/A	Syngenta Crop Protection	Old	Footnote 2.
860.1300	Nature of Residue – crops	40027904 40027905 40052402 40052403 40307102 41463001 41726202	Syngenta Crop Protection	Old	
860.1300	Nature of Residue - Poultry	40027906 40027907 41737002	Syngenta Crop Protection	Old	
860.1300	Nature of Residue - Cow/Goat	41144901 41144903 41614608	Syngenta Crop Protection	Old	
860.1340	Analytical Method - Animal Tissues	40027907 40054002 40260901 40260902 42253702	Syngenta Crop Protection	Old	
860.1340	Analytical Method - Crops	40054001 41614603 41614604	Syngenta Crop Protection	Old	

Signature	O . M. When	Name and Title	Date
	Comes M Wagner-	James M. Wagner, Agent for Extremis, LLC	December 20, 2016



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Submitter Status Note **MRID Number Guideline Study Name Guideline Reference Number** Old **Syngenta Crop Protection** 40446102 Multiresidue Analytical Method 860.1360 41737005 42172302 42172303 Old 40027910 **Syngenta Crop Protection** Storage Stability Data - crops 860.1380 40027911 41614602 42919201 43032001 43781003 40027912 **Syngenta Crop Protection** Old Storage Stability Data - animal tissues and milk 860.1380 40027913 40027915 40446103 **Syngenta Crop Protection** Old 40027914 Meat/Poultry/Eggs 860.1480 42311201

Signature	Comet M Wagner_	Name and Title James M. Wagner, Agent for Extremis, LLC	Date December 20, 2016
	Junes 101 0007.00	James M. Wagner, Agent for Extremis, LLC	December 20, 2010



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DATA MATRIX					
Date: December 20, 2016		EPA Reg No./ File Symbol: 91127-U	Page 8 of 10		
Applicant's/Registrant's Name and Address:	Extremis, LLC c/o Wagner Regulatory Associates Inc. P.O. Box 640 Hockessin, DE 19707	Product: EXT Lambda-Cyhalothrin TGAI			
Ingredient: Lambda Cyhalothrin					

860.1500	Crop Field Trials	40027909	Syngenta Crop Protection	Old	
000.1300	Grop Ficia Friais	40307103	-		
		40307104			
		40307105			
		40307106			
		41737003			
		41737006			
		41737007			
		41771102			
		41863902			
		41892402			
		41934604			
		42206803			
		42253703			
		42273202			
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		44325708			

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Date: December 20, 2016 Applicant's/Registrant's Name and Address: C/o Wagner Regulatory Associates Inc. P.O. Box 640 Hockessin, DE 19707 EPA Reg No./ File Symbol: 91127-U Page 9 of 10 Product: EXT Lambda-Cyhalothrin TGAI

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
		44005500			
		44325709			
	· ·	44325710			
		44325712			
		44595108			
		45007001			
		45007003			
		45007004			
		45007005			
		45007006			
		45007008			
		45007009			
		45007010			
		45007011			
		45032401			
860.1500	Crops Field Trials	45443101	Syngenta Crop Protection	Pay	
		45443102			
		45669201			
		46658301			
		46665301			
		46665302			
		46665303			
		46665304			
		46665305			
860.1520	Processed Food/Feed	45443103	Syngenta Crop Protection	Pay	
000.1320		45443104			
		45443105			

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Date: December 20, 2016 EPA Reg No./ File Symbol: 91127-U Applicant's/Registrant's Name and Address: Extremis, LLC c/o Wagner Regulatory Associates Inc. P.O. Box 640 Hockessin, DE 19707 Ingredient: Lambda Cyhalothrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Subpart K - Human Exposure (Series 875)	Applicator Exposure and Post application Exposure Data		Ag Handlers Exposure Task Force Ag Reentry Exposure Task Force	Pay	
Subpart L - Spray Drift	Spray Drift Data	CITE ALL	Spray Drift Task Force	Old	

Footnotes:

- 1. No data can be located in NPIRS and EPA has not required the data in GDCI 128897-2013.
- 2. Confined crop rotation Old EPA reviews reference this data but do not provide the MRID number.
- 3. Reference: EPA GDCI 128897-1249-2013

Signature	James M. Wagner	Name and Title James M. Wagner, Agent for Extremis, LLC	Date December 20, 2016
	June 101 100 July	James W. Wagner, Figure for Extremes, 220	